

# C-AD/SMD ENVIRONMENTAL MANAGEMENT SYSTEM HIGHLIGHTS 2005

## Spill Prevention – Reporting Requirements:

When must a spill be reported (calling 911 or 2222)?

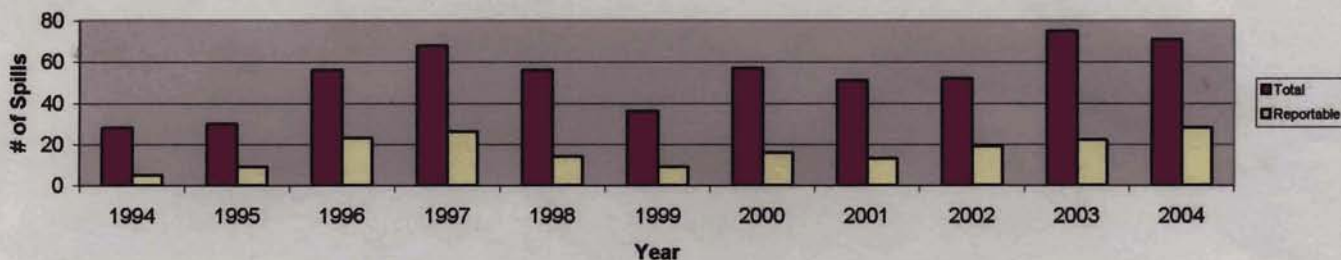
- Unexpected releases of oil, hazardous substances, and radioactive materials known or suspected to have impacted the environment (e.g., drops spilled to the soil or a waterway);
- Any hazardous material spill where the staff member's actions would result in exposures to chemicals above established safety limits;
- Spills where the staff member believes that he/she possesses neither appropriate equipment nor training to mitigate the incident;
- Airborne releases of hazardous materials or spills that result or are likely to result in an uncontrolled release of the hazardous material.

When don't I have to call in a spill (Each of the criteria must be true)?

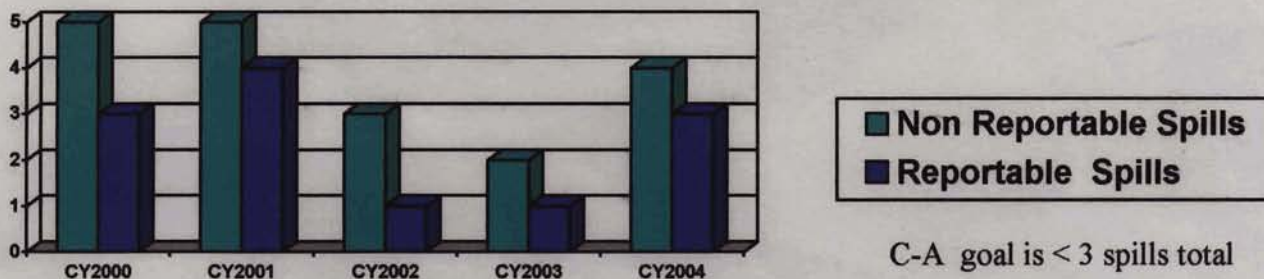
- The spill is onto an impermeable surface;
- The material spilled is not a highly toxic or highly volatile material like methylene chloride;
- The person responding to the spill has appropriate training and materials to clean up the spill;
- The volume spill is less than five gallons (petroleum-based products);
- The spill is cleaned up immediately.

## Spill Prevention – BNL Performance (1994-2004)

Total Number of Spills (1994-2004)



## Spill Prevention – C-A Performance (2000-2004)



C-A goal is < 3 spills total



## Types of Spills & Source of Spills

## Hydraulic Fluid

- Ruptured Hoses/Fittings

- ## •Overfilling Tanks

## Fuel, Engine Oil

- **Poor Maintenance**

- Transferring Operations

- ## •Overfilling Tanks

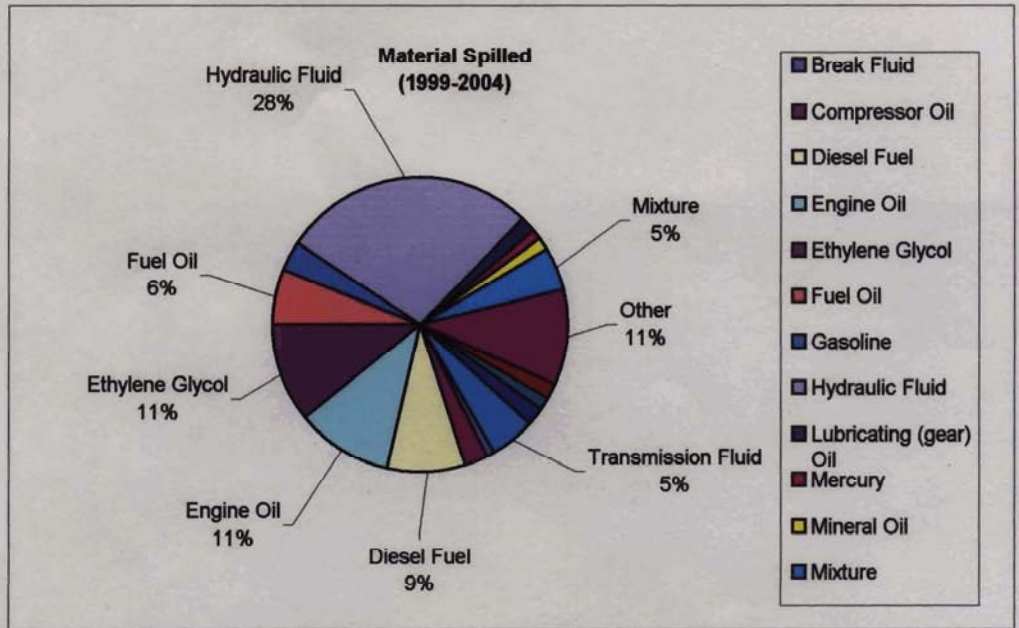
## Ethylene Glycol

- Accidents

- Poor Maintenance

- Overfilling

- Running vehicles



## Equipment Failures

- Excavators, Backhoes, Forklifts,  
Tractors, Lawnmowers

- Generators, Transformers, Compressors

### Operational Errors

- Material Handling (12)

- Poor Work Planning

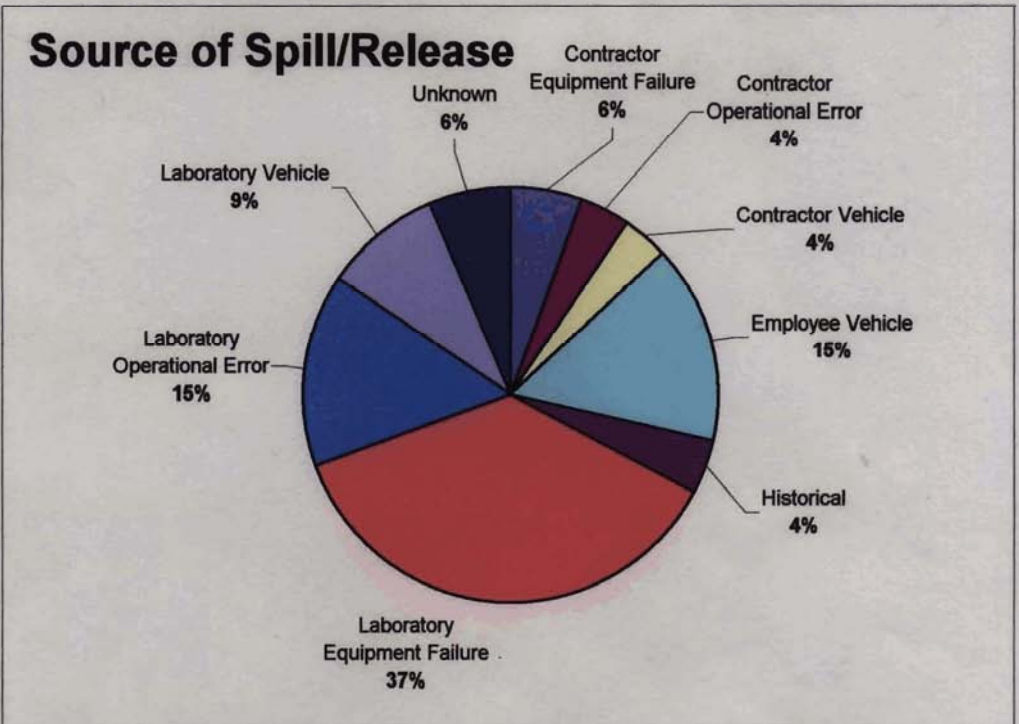
- Open Containers (4)

- Fuel Transfers (7)

## Historical

- Tank Removals

- ### •Other Restoration Activities



## Tips on Reducing the Number of Spills

- Perform routine maintenance/replacement of hydraulic hoses and retrofitting with vegetable oil;
- Follow proper material handling and transferring procedures;
- Use secondary containment wherever possible;
- Drain equipment prior to long-term storage;
- Don't overfill tanks, secure caps, do not park vehicles on uneven ground and eliminate parking on non-paved surfaces.